



0,9-2.400
Nm³/h

JOURNEY
OF
AIR

NITROGEN GENERATORS

Thanks to the PSA technology utilized by Dalgakiran nitrogen generators, you can produce nitrogen gas with up to 99.999% purity within the capacity range of 0.5-5000 Nm³/h.

These generators produce nitrogen from the compressed air available. The compressed air is cleaned by pre-filtration which eliminates impurities, such as humidity, oil vapours, particles and hydrocarbons.

The filtrated compressed air is directed to two CMS filled columns. While the compressed air is passing through the generator, the oxygen and carbon dioxide molecules are removed and the pressure dew point is lowered. The generated nitrogen gas is clean, dry and of high purity so that it can be used for a wide variety of applications.

The parameters such as compressed air temperature, pressure, nitrogen purity and nitrogen pressure are all monitored continuously. Dalgakiran nitrogen generators guarantee sustainable and high efficiency production.



Standard

- Stainless steel pipes and process valves
- Outlet pressure sensor
- Visual & Audio alarm for low purity
- Visual & Audio alarm for low pressure
- Visual alarm for periodical maintenance
- Automatic start/stop
- Outlet nitrogen regulator
- Outlet nitrogen needle valve
- Advanced energy saving kit



Optional

- Zirconia oxygen sensor
- Siemens S/1200 PLC
- Flowmeter

Model	Free Nitrogen Delivery @ Following Purity Level (Nm ³ /h)								
	95,00%	97,00%	98,00%	99,00%	99,50%	99,90%	99,99%	99,995%	99,999%
DGN 25	6,2	5,4	4,8	3,9	3,1	2,2	1,5	1,1	0,9
DGN 50	12	9,9	9	7	5,8	4	2,2	1,9	1,5
DGN 80	19	15	13,5	10,5	9,5	6	3,3	2,7	2,2
DGN 100	27	21	19	15	12,5	8,5	4,5	3,5	2,9
DGN 150	34	30	27,5	22	18	12	8,5	6,4	4,7
DGN 250	55	45	39,5	31	27,5	19	12	10	7,5
DGN 330	68	53	47	39,5	35	24	16	13,5	9
DGN 400	90	66	59,5	52	46	31,5	20	17	11
DGN 450	96	74	67	58	50	40	25	21	15
DGN 500	112	90	82	70	58	45	29,5	24,5	19
DGN 700	148	122	103	84	75	55,5	38	29	24,5
DGN 1000	219	178	154	118	102	76	48	40,5	31
DGN 1200	266	219	194	150	130	97	63	54	44,5
DGN 1400	312	260	232	180	151	114	72	62	51
DGN 1700	381	320	290	220	183	139	85	74	63
DGN 2000	446	372	325	255	222	164	105	91	72
DGN 3000	638	530	464	371	326	241	151	124	99
DGN 4000	920	760	660	515	440	328	207	178	140
DGN 5500	1170	955	840	650	599	427	263	208	172
DGN 6500	1380	1140	990	755	655	485	299	242	197
DGN 7500	1600	1325	1160	880	750	565	347	289	229
DGN 8500	1830	1515	1325	1000	850	625	388	325	250
DGN 10000	2150	1790	1550	1200	1000	740	445	360	282
DGN 12500	2400	2125	1790	1380	1200	845	535	405	313

CMS Temperature (°C) - Correction Factor (Kt)									
Temperature °C	10	15	20	25	30	35	40	45	50
Correction Factor	1	1	1	1	0,94	0,86	0,81	0,77	0,72

Inlet Pressure (Barg) - Correction Factor (Kp)									
Pressure (bar[g])	6	6,5	7	7,5	8	8,5	9	9,5	10
Correction Factor	0,9	0,95	1	1,02	1,05	1,09	1,12	1,14	1,15

Purity (%) - Air / Nitrogen Ratio									
Purity (%)	95	97	98	99	99,5	99,9	99,99	99,995	99,999
Air/Nitrogen Ratio	2	2,1	2,3	2,5	2,8	3,1	4,4	5	5,9

Pressure Drop (Air Inlet - Generator Outlet)						
Purity (%)	95	97	98	99	99,5	99,9 - 99,999
Pressure (bar[g])	1,5	1,5	1,25	1,25	1	1